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In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

- 1. (Currently Amended) A method of detecting the presence of detergent-or urea-insoluble amyloid-like fibrils or protein aggregates in a sample on a filter comprising the following steps:
- (a) contacting said a filter with a low capacity for protein adsorption with material of a sample suspected to comprise said amyloid-like fibrils or aggregates which has been previously treated with detergent or urea to solubilize the sample and filtering said sample through the filter to capture said detergent or urea insoluble amyloid-like fibrils or protein aggregates; and
 - (b) detecting whether said amyloid-like fibrils or aggregates are retained on said filter.
- 2. (Original) The method of claim 1 wherein said amyloid-like fibrils or protein aggregates are indicative of a disease.
- 3. (Original) The method of claim 2 wherein said disease is a human disease.
- 4. (Currently Amended) The method of claim 2 or 3 wherein said disease is associated with a polyglutamine expansion.
- 5. (Previously Presented) The method of any one of claims 2 to 3 wherein said disease is Huntington's disease, spinal and bulbar muscular atrophy, dentarorubral pallidoluysian atrophy, spinocerebellar ataxia type-1, -2, -3, -6 or -7, Alzheimer disease, bovine spongiform encephalopathy (BSE), primary systemic amyloidosis, secondary systemic amyloidosis, senile systemic amyloidosis, familial amyloid polyneuropathy I, hereditary cerebral amyloid angiopathy, hemodialysis-related amyloidosis, familial amyloid polyneuropathy III, Finnish hereditary systemic amyloidosis, type II diabetes, medullary carcinoma of the thyroid, spongiform encephalopathies: Kuru, Gerstmann-Sträussler-Scheinker syndrome (GSS), familial insomnia, scrapie, atrial amyloidosis, hereditary non-neuropathic systemic amyloidosis, injection-localized amyloidosis, hereditary renal amyloidosis, or Parkinson's disease.

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6. (Cancelled).

7. (Currently Amended) The method of claim 1 6 wherein said filter with low <u>capacity for</u>

protein adsorption is cellulose acetate.

8. (Previously Presented) The method of any one of claims 1 to 3 and 7 wherein, prior to

step (b), the following step is carried out: (b') washing said filter so as to remove detergent- or

urea-soluble material of the sample.

9. (Previously Presented) The method of any one of claims 1 to 3 and 7 wherein detergent-

or urea-soluble material of the sample is simultaneously with or subsequent to the contacting of

said filter with material of the sample in step (a), sucked through said filter.

10. (Previously Presented) The method of any one of claims 1 to 3 and 7 wherein detection

in step (b) is effected by an antibody, or peptide or polypeptide, preferably a tag or an enzyme, or

a fragment or derivative thereof or a chemical reagent that specifically binds to said fibrils or

aggregates.

11. (Previously Presented) The method of any one of claims 1 to 3 and 7 wherein detection in

step (b) is performed by electron microscopy, electron scanning microscopy, fluorescence and/or

chemiluminescence.

12. (Currently Amended) The method of <u>claim</u> any one of claims 1, 2, and 7 wherein said

material of the sample is derived from tissues or cells of bacteria, yeast, fungi, plants, insects or

animals.

13. (Currently Amended) A The method of detecting the presence of detergent- or

urea-insoluble amyloid-like fibrils or protein aggregates in a sample on a filter

comprising the following steps:

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(a) contacting a filter with material of a sample suspected to comprises said amyloid-like fibrils or aggregates which has been previously treated with detergent or urea to solubilize the sample and filtering said sample through the filter to capture said detergent or urea-insoluble amyloid-like fibrils or protein aggregates; and

- (b) detecting whether said amyloid-like fibrils or aggregates are retained on said filter any one of claims 1 to 3 and 7 wherein said material of the sample comprises a fusion protein comprising a peptide or polypeptide that enhances solubility or prevents aggregation of said fusion protein, an amyloidogenic peptide or polypeptide and a cleavable site that separates the above-mentioned components of the fusion protein, the method further comprising the following steps prior to step (a):
- (a') incubating said fusion protein in the presence of a suspected inhibitor of amyloidlike fibril or protein aggregate formation; and
- (a") simultaneously with or after step (a'), further incubating with a compound that induces cleavage at said cleavage site.
- 14. (Original) The method of claim 13 wherein said cleavable site is an enzymatically cleavable site or a chemically cleavable site or a site cleavable by intein self-cleavage in the presence of thiols.
- 15. (Currently Amended) The method of claim 13 14 further comprising, prior to step (b) and after step (a"):
 - (a"") incubation with an inhibitor of said compound that induces cleavage.
- 16. (Currently Amended) The method of claim 13 14 wherein said amyloidogenic peptide or polypeptide comprises a polyglutamine expansion.
- 17. (Currently Amended) The method of <u>one of claims 4 and elaim</u> 16 wherein said polyglutamine expansion comprises at least 35-glutamines.
- 18. (Currently Amended) The method of any one of claims 1 and 13 to 3 and 7 wherein said contacting is effected by dotting, spotting or pipetting said material of the sample onto said filter.

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19. (Currently Amended) The method of any one of claims 1 and 13 to 3 and 7 wherein said filter is a filter membrane.

20. (Currently Amended) The method of any one of claims 1 and 13 to 3, and 7 wherein said detergent is Sodium Dodecyl Sulphate (SDS) or t-octylphenoxypolyethoxyethanol (TRITON X-100TM).

21-26. (Cancelled)

- 27. (Previously Presented) The method of claim 12 wherein said tissues or cells are from mammals, humans, a transgenic animal or a transgenic plant.
- 28. (Currently Amended) The method of <u>one of claims 4 and elaim</u> 16 wherein said polyglutamine expansion comprises at least 41 glutamines.
- 29. (Currently Amended) The method of <u>one of claims 4 and elaim 16</u> wherein said polyglutamine expansion comprises at least 48 glutamines.
- 30. (Currently Amended) The method of <u>one of claims 4 and elaim</u> 16 wherein said polyglutamine expansion comprises at least 51 glutamines.
- 31. (Previously Presented) The method of claim 13, wherein the compound is an enzyme.
- 32. (Previously Presented) The method of claim 31, wherein the enzyme is a protease.
- 33. (New) The method of claim 13 wherein said amyloid-like fibrils or protein aggregates are indicative of a disease.
- 34. (New) The method of claim 33 wherein said disease is a human disease.

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35. (New) The method of claim 33 wherein said disease is associated with a polyglutamine expansion.

- 36. (New) The method of claim 33 wherein said disease is Huntington's disease, spinal and bulbar muscular atrophy, dentarorubral pallidoluysian atrophy, spinocerebellar ataxia type-1, -2, -3, -6 or -7, Alzheimer disease, bovine spongiform encephalopathy (BSE), primary systemic amyloidosis, secondary systemic amyloidosis, senile systemic amyloidosis, familial amyloid polyneuropathy I, hereditary cerebral amyloid angiopathy, hemodialysis-related amyloidosis, familial amyloid polyneuropathy III, Finnish hereditary systemic amyloidosis, type II diabetes, medullary carcinoma of the thyroid, spongiform encephalopathies: Kuru, Gerstmann-Sträussler-Scheinker syndrome (GSS), familial insomnia, scrapie, atrial amyloidosis, hereditary non-neuropathic systemic amyloidosis, injection-localized amyloidosis, hereditary renal amyloidosis, or Parkinson's disease.
- 37. (New) The method of claim 13 wherein said filter with low protein adsorption is cellulose acetate.
- 38. (New) The method of claim 13 wherein, prior to step (b), the following step is carried out: (b') washing said filter so as to remove detergent- or urea-soluble material of the sample.
- 39. (New) The method of claim 13 wherein detergent- or urea-soluble material of the sample is simultaneously with or subsequent to the contacting of said filter with material of the sample in step (a), sucked through said filter.
- 40. (New) The method of claim 13 wherein detection in step (b) is effected by an antibody, or peptide or polypeptide, preferably a tag or an enzyme, or a fragment or derivative thereof or a chemical reagent that specifically binds to said fibrils or aggregates.
- 41. (New) The method of claim 13 wherein detection in step (b) is performed by electron microscopy, electron scanning microscopy, fluorescence and/or chemiluminescence.